

**AMENDMENTS TO THE CLAIMS**

1. **(Currently Amended)** Modified-A modified factor VIII cDNA, echaracterized in that wherein in positions where introns 1 and 13 in the genomic factor VIII sequence are inserted, the cDNA of factor VIII also contains one or more spliceable nucleotide sequences or a nucleotide sequence which will be spliced during the export of the pre-mRNA from the nucleus and in addition another spliceable nucleotide sequence which is inserted downstream of the promoter sequence and upstream of the modified factor VIII-~~cDNA~~ cDNA.
2. **(Currently Amended)** Modified-The modified factor VIII cDNA as claimed in claim 1, echaracterized in that wherein in intron positions 1 and/or 13 of the genomic factor VIII sequence one or more complete or truncated introns have been inserted.
3. **(Currently Amended)** Modified-The modified factor VIII cDNA as claimed in claim 1, echaracterized in that wherein in intron positions 1 and/or 13 of the genomic factor VIII sequence one or more natural occurring or synthetic nucleic acid sequences, which retain the ability to be spliced have been inserted.
4. **(Currently Amended)** Modified-The modified factor VIII cDNA as claimed in claim 1, echaracterized in that wherein in intron positions 1 and 13 of the genomic factor VIII sequence a truncated-~~FIX intron~~ factor IX (FIX) intron I has been inserted.
5. **(Currently Amended)** Modified-The modified factor VIII cDNA as claimed in claim 1, echaracterized in that wherein downstream of the promoter and upstream of the FVIII coding sequence one complete or truncated intron has been inserted.
6. **(Currently Amended)** Modified-The modified factor VIII cDNA as claimed in claim 1, echaracterized in that wherein downstream of the promoter and upstream of the FVIII coding sequence one natural occurring or synthetic nucleic acid sequences which retain the ability to be

spliced have been inserted.

7. **(Currently Amended)** ~~Modified~~ The modified factor VIII cDNA as claimed in claim 1, characterized in that wherein downstream of the promoter and upstream of the FVIII coding sequence a  $\beta$ -globin intron 2 has been inserted.

8. **(Currently Amended)** ~~Modified~~ The modified factor VIII cDNA as claimed in claims 1 or 4, characterized in that it comprises a first DNA segment coding for the amino acids 1 through 740 of the human factor VIII and a second DNA segment coding for the amino acids 1649 through 2332 of the human factor VIII, said segments being interconnected by a linker DNA segment coding for a linker peptide of at least two amino acids which are selected from lysine and arginine wherein it represents a recombinant factor VIII lacking the middle heavily glycosylated region of the factor VIII polypeptide chain residing between amino acids Arg-740 and Glu-1649.

9. **(Currently Amended)** ~~Recombinant~~ A recombinant expression vector containing a transcription unit comprising the modified factor VIII cDNA sequence according to ~~claims 1 to 5~~ claim 1, a transcriptional promoter and a polyadenylation sequence.

10. **(Cancelled)**

11. **(Currently Amended)** ~~Process~~ A process for the production of a biologically active recombinant human factor VIII or its derivative, ~~characterized in that the production is performed by cultivating the animal cell line of claim 10 that comprises the following steps:~~ cultivating a host cell line of animal origin transformed with the recombinant expression vector of claim 9 in a nutrient medium allowing expression and secretion of the human factor VIII or its derivative and recovering said expression product from the culture medium.

12. **(Withdrawn)** The human factor VIII or its derivative whenever prepared by the process

of claim 11.

13. **(Withdrawn)** Pharmaceutical composition containing factor VIII as described in claim 12.

14. **(Withdrawn)** Transfer vector for use in the human gene therapy, characterized in that it comprises a modified factor VIII cDNA as claimed in claims 1 to 5.

15. **(Currently Amended)** A host cell according to ~~claim 10~~ claim 11, characterized in that wherein it is a human cell.

16. **(Cancelled)**